



New S-series wide lineup high resolution network camera with AI engine 6MP Outdoor Bullet Network Camera

Equipped with an AI processor, it can run up to three AI analytics applications (AI apps) simultaneously, which significantly improve the detection rate of people and vehicles and can be used in a wide range of surveillance scenes. It realizes high-quality and clearer images even in low-light and wide-range shooting scenes.

3 AI Apps operation at same time

- Up to 3 AI apps can be operated at the same time from the wide variety.

Using AI processor which identifies object as people or vehicle, it will reduce false alarm compared to conventional model. As result, it can be used many industries.

High image quality / High compression

- Our original smart coding technology compatible with H.264 and H.265 delivers high-resolution video at high image quality and low bit rate. Achieved useful images by combining with highly visible images by the intelligent auto (iA) function.

Easy setting and installation

- Easy Kitting Package enabling installers to configure cameras easily while keeping the unit in the box. The grommet on the outdoor model can reduce the time and effort required for installation. User-friendly GUI (setting while watching Live view, etc.) allows you to set comfortably.
- iCT tool allows you to set multiple cameras, apps, and recorders all at once, reducing the camera setting time.

High security

- Equipped with FIPS 140-2 level 3 certified hardware in addition to the digital certificate issued by a third party organization (GlobalSign®).

Key i-PRO Spec.

- 6MP
- Intelligent Auto (with AI Engine)
- Super Dynamic 132dB
- Color night vision (0.04 to 0.06 lx)
- Smart Coding (with Al Engine)
- Built-in IR LED
- IK10 Vandal Resistant
- ONVIF[®] Profile G / M / S / T *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level3 certified

Industry examples

- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)
- Retail / Bank / Logistics / Education / Hospital / Building





Specifications

Camera	Image S	iensor	Approx. 1/1.8 type CMOS image sensor
	Minimu	m Illumination	Color : 0.04 lx (30IRE, F1.5, 1/30s) *1
			Color : 0.06 lx (50IRE, F1.5, 1/30s)
			BW : 0.03 lx (50IRE, F1.5, 1/30s)
			BW : 0 lx (50IRE, F1.5,1/30s with IR LED)
	White Balance		ATW1 / ATW2 / AWC
	Shutter Speed		[30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix
			[25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix
	Intelligent Auto		On / Off
	Super Dynamic		On / Off, The level can be set in the range of 0 to 31.
	Dynamic Range		Max.132 dB (Super Dynamic : On, Level 31)
	Adaptive Black Stretch		The level can be set in the range of 0 to 255.
	Back light compensation /		BLC (Back light compensation) / HLC (High light compensation) / Off
	High light compensation		(only when Super dynamic / Intelligent Auto : Off)
	Fog compensation		On / Off (only when Intelligent auto / auto contrast adjust : Off)
	Maximum gain (AGC)		The level can be set in the range of 0 to 11.
	Color/BW (ICR)		Off / On (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) /
	,,		Auto2 (IR Light On) / Auto3 (SCC)
	IR LED Light		High / Middle / Low / Off,
	5		Maximum irradiation distance : 70 m {Approx. 230 ft} (30IRE) *1
			50 m {Approx. 164 ft} (50IRE)
	Digital Noise Reduction		The level can be set in the range of 0 to 255.
	Video Motion Detection (VMD)		On / Off, 4 areas available
	Scene Change Detection (SCD)		On / Off, 1 areas available
	Audio Detection		On / Off
	Al Sound Classification		Gunshot, Yell, Vehicle horn, Glass break
	Al Analytics		Yes
	Privacy Zone		On / Off, Up to 8 zones available
	VIQS		On / Off, Up to 8 zones available
		otation ^{*2}	0°/90°/180°/270°
		Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)
		djustment	Auto focus
Lens	Optical		2.0x (Motorized zoom / Motorized Focus)
	Extra zoom		2.0x - 6.0x (when resolution is 1280 x 720)
	Focal length		4.3 - 8.6 mm {5/32 inches - 11/32 inches}
	Angular Field of View Maximum Aperture Ratio		[16 : 9 mode]*[4:3 mode] is not supported.
			Horizontal : 53° (TELE) - 104° (WIDE), Vertical : 30° (TELE) - 56° (WIDE)
			1:1.5 (WIDE) - 1:2.4 (TELE)
	Focus range		1.0 m {39-3/8 inches} - ∞
DORI	Detect (25ppm / 8ppf)		Wide: 52.0 m / 170.6 ft, Tele: 133.5 m / 438.0 ft
	Observe (62.5ppm / 19ppf)		Wide: 20.8 m / 68.2 ft, Tele: 53.4 m / 175.2 ft
	Recognize (125ppm / 38ppf)		Wide: 10.4 m / 34.1 ft, Tele: 26.7 m / 87.6 ft
	Identify (250ppm / 76ppf)		Wide: 5.2 m / 17.1 ft, Tele: 13.3 m / 43.8 ft
System o	n Chip (SoC)	Ambarella CV22
		mounting	Horizontal : ±180 ° (PAN rotation part)
Angle			Vertical : 0 ° to 100 ° (TILT rotation part)
			Yaw : -190 ° to +100 ° (YAW rotation part)
	Wall mounting		Horizontal : ±100 ° (TILT rotation part)*
			Vertical : ±100 ° (TILT rotation part)*
			Yaw : -190 ° to +100 ° (YAW rotation part)
			* You can change between horizontal and vertical angels by adjusting the PAN rotation part.
Browser	Camera	Control	Brightness, AUX On / Off
GUI	Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
			Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI / Set	tup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	Browser*3		Microsoft Edge, Firefox, Google Chrome
Network	Networ		10Base-T / 100Base-TX, RJ45 connector
	Resolut		[16 : 9 mode (30 fps mode)][16 : 9 mode (25 fps mode)]
	H.265/ H.264/ JPEG (MJPEG)		3328x1872/ 2560x1440/ 1920x1080/1280x720/ 640x360/ 320x180
		Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
		Transmission Type	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast
		Image Quality	10 steps

*1	Converted	va	h

5

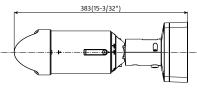
*2 When the 320x180 resolution is used, the "90°" and "270°" settings are not available.

*3 For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132>.

*4 Transmission for 4 streams can be individually set.

Appearance

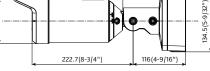


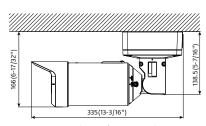




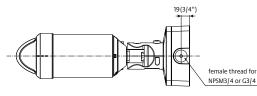
ø100(3-15/16"







Mounted state after construction



female thread for conduit

Unit : mm (inches)

		Frame rate control (Variable GOP 45-165 with frame rate control)
		*Advanced and Frame rate control are only available with H.265.
		Smart VIQS: On(High)/On(Low)/Off, Smart P-picture control: On/Off
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps
		G.711 : 64 kbps
		AAC-LC ^{*5} : 64 kbps / 96 kbps / 128 kbps
	Audio transmission mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3,
		DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MQTT, LLDP
		IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP,
		SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP,
		ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, SFTP, MQTT, LLDP
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	Secure	FIPS 140-2 level3
	SDXC/SDHC/SD	H.265 / H.264 recording :
	Memory Card	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure
		JPEG recording :
		Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
		Compatible SDXC/SDHC/SD Memory Card :
		microSDXC memory card : 64 GB, 128 GB, 256 GB, 512 GB
		microSDHC memory card : 4 GB, 8 GB, 16 GB, 32 GB
		microSD memory card : 2 GB
	Mobile Terminal Compatibility	iPad, iPhone(iOS 8.0 or later), Android™ terminals
	ONVIF [®] Profile	G/M/S/T
rm	Alarm Source	3 terminals input, VMD alarm, Command alarm, Audio detection alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		HTTP alarm notification Indication on browser, TCP alarm notification output
out/	Monitor Output	VBS : 1.0 V [p-p] / 75 Ω, composite, Pin jack
tput	(for adjustment)	An NTSC or PAL signal can be outputted from camera
•	Audio input ^{*6}	ø3.5 mm stereo mini jack
	For microphone input :	Recommended applicable microphone : Plug-in power type
		(Sensitivity of microphone : -51 dB to -38 dB (0 dB=1 V/Pa, 1 kHz))
		Input impedance : Approx. 2 kΩ (unbalanced)
		Supply voltage : 2.5 V ±0.5 V
	For line input :	Input level : Approx. –10 dBV
	Audio Output ^{*6}	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
		Output level : -20 dBV
	External I/O Terminals ^{*6}	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)
		ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1)
		ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)
neral	Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1
	EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035
	Power Source and	DC power supply*6 : DC12 V 1.0 A, Approx. 12.0 W
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 240 mA, Approx. 11.5 W (Class 0 device)
	Ambient Operating	-40 °C to +60 °C (-40 °F to 140 °F)*7
	Temperature	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F})
	Ambient Operating Humidity	10 to 100 % (no condensation)
	Anti-Condensation System	Temish element + Heater + moisture absorption gel
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant
	Shock Resistance	IK10 (IEC 62262)
	Dimensions	ø133 mm (W) x 133 mm (H) x 383 mm (D)
		{ø5-1/4 inches (W) x 5-1/4 inches (H) x 15-3/32 inches (D)}
	Mass (approx.)	Approx. 2.4 kg {5.3 lbs.}
	Finish	Main body : Aluminum die cast and resin, i-PRO white
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)
		Front papel : Bolycarbonate resin Clear

GOP (Group of pictures) control: Off/ Low (Variable GOP 1s-8s)/ Mid (Variable GOP 4s-16s)/ Advanced (Fixed GOP 60s w/1s key-frame) / Frame rate control (Variable GOP 4s-16s with frame rate control)

Network Smart Coding

Ala

Inpu Out

Gen

*5 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
*6 When using with these, WV-QCA501A cable is required.
*7 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C (+122 °F).

Front panel : Polycarbonate resin, Clear

https://i-pro.com/global/en/surveillance/products/i-pro-ai-application

AI Video Motion Detection (AI-VMD)

Advanced video analysis technology detects objects (faces, people, cars, motorcycles) in a specified area. (Intruder Detection, Loitering Detection, Direction Detection, Cross Line Detection)

Al Privacy Guard

To protect privacy and portrait rights, it is possible to automatically apply a mosaic the entire face and figure of a person photographed by the camera.

AI Face Detection

Detects faces with high precision even in low-light, backlit, and mask-wearing environments.

AI People Detection

Extract the characteristics of human face / clothing and classify them into meaningful categories such as gender, age, and clothing color.

3rd party applications are also available. https://i-pro.com/global/en/surveillance/i-pro-application-platform/application-list

Optional Accessories

Mount Bracket





* WV-QCA500APK and WV-QCA501APK are package of 10 cables. *The color of the grommet rubber may differ depending on the production time, but the performance and mounting method will not change

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Important

- Safety Precautions : Carefully read the Basic Information, Installation Guide and
- Operating Instructions before using this product. i-PRO Co., Ltd. cannot be held responsible for the performance

of the network and/or other manufacturers' products used on the network.

Masses and dimensions are approximate.
Specifications are subject to change without notice.



i-PRO Co., Ltd. https://i-pro.com/ (2A-371A)

AI Vehicle Detection

Extract vehicle characteristics and classify them into meaningful categories such as type and color.

AI Non mask Detection Deep-learning and proprietary image processing technologies recognize mask and detect people who are not wearing them.

AI Occupancy Detection

Detecting the congestion via network camera with AI engine enables that information to be used direct visitors in advance or help store staff work more efficiently.